

CLAIMS

What is claimed is:

1. An oven assembly for drying paint on a product transported by a conveyor, comprising:

5 a plurality of modules positioned in a generally abutting relationship, wherein each of said modules includes a roof, side walls, and a floor having a length and a width:

said floor formed from abutting floor panels reinforced by a plurality of support members spaced along said length of said floor and having a length
10 greater than said width of said floor;

said side walls including an inner side wall panel disposed in an overlapping relationship with said floor and a side wall cladding panel supported by said support members along said width of said floor thereby concealing thermal insulating material disposed between said inner side wall panel and said side wall cladding panel.

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2. An assembly as set forth in claim 1, wherein each of said floor modules define an inner cavity having a thermal insulator disposed therein.

3. An assembly as set forth in claim 1, further including a generally U-shaped channel extending along said length of said floor and supported by said support
20 members for receiving said side wall cladding panel thereby retaining said side wall cladding panel to said assembly.

4. An assembly as set forth in claim 1, wherein said roof includes roof panels spaced apart and fixedly attached between said side walls thereby supporting said side
25 walls in a space relationship.

5. An assembly as set forth in claim 4, further including relief panels disposed between said roof panels and being releasably retained to said roof panels thereby providing explosion relief to said assembly.

5 6. An assembly as set forth in claim 5, further including a radiant wall overlying said floor at a spaced location defining a heated air channel therebetween being fluidly connected to a source of heated air thereby heating said radiant floor.

7. An assembly as set forth in claim 1, further including air ducts affixed to
10 at least one of said roof and said inner wall panel for providing air to said assembly.

8. An assembly as set forth in claim 1, further including a support member extending at least between said roof panels and providing an abutment surface for receiving said side wall cladding panels thereby retaining said side wall cladding panels
15 to said assembly.

9. An assembly as set forth in claim 8, including roof cladding panels overlaying said roof at a spaced location thereby defining a space for receiving thermal insulating material.

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10. An assembly as set forth in claim 1, wherein adjacent of said modules are adjoined by a flexible member thereby enabling said modules to expand and contract.

11. A method of manufacturing an oven assembly for drying paint on products transported on a conveyor, comprising the steps of:

assembling a floor from a plurality of insulating panels;

fixedly attaching inner wall panels to opposing sides of said floor;

5 fixedly attaching a roof to an opposite end of said inner side panels from said floor thereby defining module with a heating chamber within said floor, said inner wall panels, and said roof;

providing insulating material to said roof and said inner side wall panels and concealing said insulating material with cladding panels; and

10 providing a support removably attached to at least two of said roof, said inner side wall panels, and said floor thereby enabling said module for transportation to a remote location.

12. The method as set forth in claim 11, further including the step of forming
15 a first set of weld seams between said roof and said side walls and second set of weld seam between said side walls and said floor.

13. The method as set forth in claim 12, wherein said step of providing a support is further defined by affixing said support over said first set of seams and said
20 second set of seams thereby securing said assembly for transportation to a remote location.

14. The method as set forth in claim 11, further including the step of providing support members at spaced locations beneath said floor thereby supporting said
25 assembly.

15. The method as set forth in claim 11, further including the step of providing a clasp for receiving said side wall cladding panels thereby retaining said side wall cladding panels to said assembly.

5 16. The method as set forth in claim 15, further including the step of fixedly attaching said clasp to said support members.

17. The method as set forth in claim 11, further including the step of providing a radiant wall at a spaced location over said floor thereby forming a hot air
10 conduit between said floor and said radiant wall thereby providing heat to said assembly.

18. The method as set forth in claim 11, further including the step of providing an air duct for providing air to said assembly and affixing said air duct to one of said floor, said side walls, and said roof.
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19. The method as set forth in claim 11, further including the step of transferring a plurality of modules to the remote location.

20. The method as set forth in claim 11, further including the step of adjoining
20 adjacent of said modules with a flexible member thereby enabling said modules to expand and contract.

21. The method as set forth in claim 20, further including the step of removing said support from said module when said module has arrive at the remote
25 location.

22. The method as set forth in claim 11, further including the step of installing a conveyor in said heating chamber for transferring products through said assembly.